



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Brenda F. Baker, Anne B. Eldrup, Muthiah Manoharan,
Balkrishen Bhat, Richard Griffey, Eric E. Swayze, Stanley
T. Crooke, Kallanthottathil G. Rajeev

For: Oligomeric Compounds Having Modified Bases
for Binding to Cytosine and Uracil or Thymine and Their
Use in Gene Modulation

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

☒ Utility Patent☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.☒ was filed on November 4, 2003 as Serial No. 10/700,920.☐ said application having been amended on ____.

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign application(s)** for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
10/078,949	February 20, 2002	Pending
09/479,783	January 7, 2000	Pending
08/870,608	June 6, 1997	Patented
08/659,440	June 6, 1996	Patented

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed
60/423,760	November 5, 2002

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

Address all telephone calls and correspondence to:

John W. Caldwell
WOODCOCK WASHBURN LLP
One Liberty Place - 46th Floor
Philadelphia PA 19103
Telephone No.: (215) 568-3100
Facsimile No.: (215) 568-3439

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Brenda F. Baker	
Mailing Address: 2147 Avenida Toronja Carlsbad, California 92009	Signature _____ Date of Signature: _____
City/State of Actual Residence: Carlsbad, California	Citizenship: United States of America

Name: Anne B. Eldrup	
Mailing Address: 816 Ridgebury Road Ridgefield, CT 06877	Signature _____ Date of Signature: _____
City/State of Actual Residence: Ridgefield, Connecticut	Citizenship: Denmark

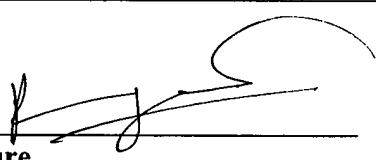
Name: Muthiah Manoharan	
Mailing Address: 25 Circle Drive Weston, MA 02493	Signature _____ Date of Signature: _____
City/State of Actual Residence: Weston, Massachusetts	Citizenship: United States of America

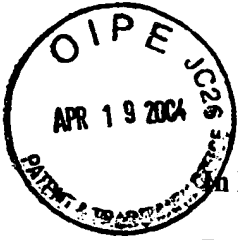
Name: Balkrishen Bhat	
Mailing Address: 911 Rosemary Avenue Carlsbad, California 92009	Signature _____ Date of Signature: _____
City/State of Actual Residence: Carlsbad, California 92009	Citizenship: India

Name: Richard Griffey	
Mailing Address: 360 Barsby Street Vista, California 92084	Signature _____ Date of Signature: _____
City/State of Actual Residence: Vista, California 92084	Citizenship: United States of America

Name: Eric E. Swayze	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 7789 Palenque Street Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California 92009	

Name: Stanley T. Crooke	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 3211 Piragua Street Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California 92009	

Name: Kallanthottathil G. Rajeev	 Signature _____ Date of Signature: 04/06/2004 Citizenship: India
Mailing Address: 30 CAMBRIDGE PARK DR. Apt 4101 1510 S. Melrose Drive Apt. 198 Vista, CA 92083 CAMBRIDGE, MA 02140	
City/State of Actual Residence: Vista, California	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Brenda F. Baker, Anne B. Eldrup, Muthiah Manoharan,
Balkrishen Bhat, Richard Griffey, Eric E. Swayze, Stanley
T. Crooke, Kallanthottathil G. Rajeev

For: Oligomeric Compounds Having Modified Bases
for Binding to Cytosine and Uracil or Thymine and Their
Use in Gene Modulation

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

☒ Utility Patent☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.☒ was filed on November 4, 2003 as Serial No. 10/700,920.☐ said application having been amended on _____.

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign application(s)** for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
10/078,949	February 20, 2002	Pending
09/479,783	January 7, 2000	Pending
08/870,608	June 6, 1997	Patented
08/659,440	June 6, 1996	Patented

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed
60/423,760	November 5, 2002


I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

Address all telephone calls and correspondence to:

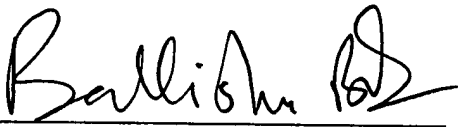
John W. Caldwell
WOODCOCK WASHBURN LLP
One Liberty Place - 46th Floor
Philadelphia PA 19103
Telephone No.: (215) 568-3100
Facsimile No.: (215) 568-3439

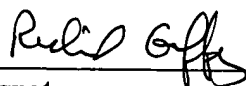
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

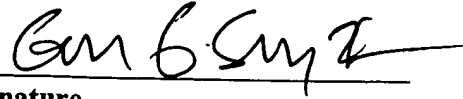
Name: Brenda F. Baker	 Signature Date of Signature: Feb 19, 2004 Citizenship: United States of America
Mailing Address: 2147 Avenida Toronja Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California	

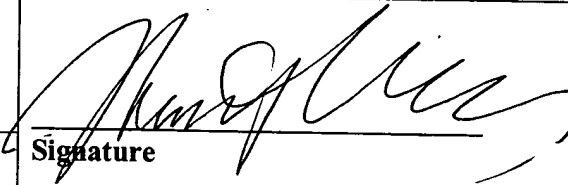
Name: Anne B. Eldrup	 Signature Date of Signature: _____ Citizenship: Denmark
Mailing Address: 816 Ridgebury Road Ridgefield, CT 06877	
City/State of Actual Residence: Ridgefield, Connecticut	

Name: Muthiah Manoharan	Signature Date of Signature: _____ Citizenship: United States of America
Mailing Address: 25 Circle Drive Weston, MA 02493	
City/State of Actual Residence: Weston, Massachusetts	

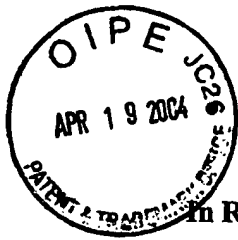
Name: Balkrishen Bhat	Signature  Date of Signature: <u>3/11/2004</u> Citizenship: India
Mailing Address: 911 Rosemary Avenue Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California 92009	

Name: Richard Griffey	Signature  Date of Signature: <u>2-19-04</u> Citizenship: United States of America
Mailing Address: 360 Barsby Street Vista, California 92084	
City/State of Actual Residence: Vista, California 92084	

Name: Eric E. Swayze	 Signature Date of Signature: <u>3/19/04</u> Citizenship: United States of America
Mailing Address: 7789 Palenque Street Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California 92009	

Name: Stanley T. Crooke	 Signature Date of Signature: <u>03/28/04</u> Citizenship: United States of America
Mailing Address: 3211 Piragua Street Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California 92009	

Name: Kallanthottathil G. Rajeev	 Signature Date of Signature: _____ Citizenship: India
Mailing Address: 1510 S. Melrose Drive Apt. 198 Vista, CA 92083	
City/State of Actual Residence: Vista, California	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Brenda F. Baker, Anne B. Eldrup, Muthiah Manoharan,
Balkrishen Bhat, Richard Griffey, Eric E. Swayze, Stanley
T. Crooke, Kallanthottathil G. Rajeev

For: Oligomeric Compounds Having Modified Bases
for Binding to Cytosine and Uracil or Thymine and Their
Use in Gene Modulation

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

☒ Utility Patent☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.☒ was filed on November 4, 2003 as Serial No. 10/700,920.☐ said application having been amended on _____.

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign application(s)** for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
10/078,949	February 20, 2002	Pending
09/479,783	January 7, 2000	Pending
08/870,608	June 6, 1997	Patented
08/659,440	June 6, 1996	Patented

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed
60/423,760	November 5, 2002

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

Address all telephone calls and correspondence to:

John W. Caldwell
WOODCOCK WASHBURN LLP
One Liberty Place - 46th Floor
Philadelphia PA 19103
Telephone No.: (215) 568-3100
Facsimile No.: (215) 568-3439

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Brenda F. Baker	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 2147 Avenida Toronja Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California	

Name: Anne B. Eldrup	Signature <u>Anne B. Eldrup</u> Date of Signature: <u>March 8, 2007</u> Citizenship: Denmark
Mailing Address: 816 Ridgebury Road Ridgefield, CT 06877	
City/State of Actual Residence: Ridgefield, Connecticut	

Name: Muthiah Manoharan	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 25 Circle Drive Weston, MA 02493	
City/State of Actual Residence: Weston, Massachusetts	

Name: Balkrishen Bhat	Signature _____ Date of Signature: _____ Citizenship: India
Mailing Address: 911 Rosemary Avenue Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California 92009	

Name: Richard Griffey	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 360 Barsby Street Vista, California 92084	
City/State of Actual Residence: Vista, California 92084	

Name: Eric E. Swayze	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 7789 Palenque Street Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California 92009	

Name: Stanley T. Crooke	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 3211 Piragua Street Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California 92009	

Name: Kallanthottathil G. Rajeev	Signature _____ Date of Signature: _____ Citizenship: India
Mailing Address: 1510 S. Melrose Drive Apt. 198 Vista, CA 92083	
City/State of Actual Residence: Vista, California	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Brenda F. Baker, Anne B. Eldrup, Muthiah Manoharan,
Balkrishen Bhat, Richard Griffey, Eric E. Swayze, Stanley
T. Crooke, Kallanthottathil G. Rajeev

For: Oligomeric Compounds Having Modified Bases
for Binding to Cytosine and Uracil or Thymine and Their
Use in Gene Modulation

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

☒ Utility Patent

☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.

☒ was filed on November 4, 2003 as Serial No. 10/700,920.

☐ said application having been amended on ____.

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign application(s)** for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
10/078,949	February 20, 2002	Pending
09/479,783	January 7, 2000	Pending
08/870,608	June 6, 1997	Patented
08/659,440	June 6, 1996	Patented

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed
60/423,760	November 5, 2002

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

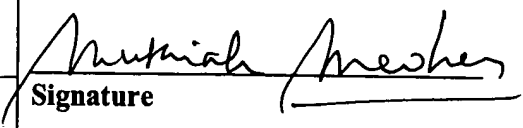
Address all telephone calls and correspondence to:

John W. Caldwell
WOODCOCK WASHBURN LLP
 One Liberty Place - 46th Floor
 Philadelphia PA 19103
 Telephone No.: (215) 568-3100
 Facsimile No.: (215) 568-3439

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Brenda F. Baker	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 2147 Avenida Toronja Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California	

Name: Anne B. Eldrup	Signature _____ Date of Signature: _____ Citizenship: Denmark
Mailing Address: 816 Ridgebury Road Ridgefield, CT 06877	
City/State of Actual Residence: Ridgefield, Connecticut	

Name: Muthiah Manoharan	 Signature Date of Signature: <u>2/27/2006</u> Citizenship: United States of America
Mailing Address: 25 Circle Drive Weston, MA 02493	
City/State of Actual Residence: Weston, Massachusetts	

Name: Balkrishen Bhat	 Signature Date of Signature: _____ Citizenship: India
Mailing Address: 911 Rosemary Avenue Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California 92009	

Name: Richard Griffey	 Signature Date of Signature: _____ Citizenship: United States of America
Mailing Address: 360 Barsby Street Vista, California 92084	
City/State of Actual Residence: Vista, California 92084	

Name: Eric E. Swayze	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 7789 Palenque Street Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California 92009	

Name: Stanley T. Crooke	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 3211 Piragua Street Carlsbad, California 92009	
City/State of Actual Residence: Carlsbad, California 92009	

Name: Kallanthottathil G. Rajeev	Signature _____ Date of Signature: _____ Citizenship: India
Mailing Address: 1510 S. Melrose Drive Apt. 198 Vista, CA 92083	
City/State of Actual Residence: Vista, California	